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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/063,915	05/23/2002	Hiroshi Sakai	15574	4405
23389 7:	590 05/10/2006		EXAMINER	
SCULLY SCOTT MURPHY & PRESSER, PC			JOHNSON, JONATHAN J	
400 GARDEN CITY PLAZA SUITE 300		ART UNIT	PAPER NUMBER	
	Y, NY 11530		1725	
			DATE MAILED: 05/10/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/063,915	SAKAI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jonathan Johnson	1725				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the mi earned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a named in Control of the control	CATION.  eply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on O	3 March 2006.					
<u> </u>						
3) Since this application is in condition for allo	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1,4,6-7</u> is/are pending in the applic	cation.					
4a) Of the above claim(s) is/are without						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) 1,4,6 and 7 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction an	d/or election requirement.					
Application Papers		÷				
9)☐ The specification is objected to by the Exam	niner.					
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b) objected to	by the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the cor						
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	I Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b) Some * c) None of:	ign priority under 35 U.S.C. §	119(a)-(d) or (f).				
1.⊠ Certified copies of the priority docum	ents have been received.					
2. Certified copies of the priority docum		pplication No.				
3. Copies of the certified copies of the p						
application from the International Bur	•	· ·				
* See the attached detailed Office action for a		received.				
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	· —	Summary (PTO-413) s)/Mail Date				
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date</li> </ol>		nformal Patent Application (PTO-152)				
	-,	<del></del>				

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4, and 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of US 6,036,084 (Yagi). AAPA teaches a first process for mounting a mask having apertures corresponding to land portions of a printed circuit board, on said printed circuit board at a predetermined position thereof in a state where it is placed in position (specification, paragraphs 5-7); a second process for mounting a solder paste containing therein as a solder material a tin-zinc (Sn--Zn) system solder on said mask and for permitting said solder paste to make rolling from one end of said mask toward the opposite end thereof by means of a squeegee (specification, paragraph 12) wherein said squeegee urges said solder paste to make rolling, to thereby fill said solder paste into said apertures; and a third process for separating said mask away from said printed circuit board (figure 2c, item 250). Yagi teaches controlling the moisture content of the air using air to a predetermined value (col. 4, ll. 30-36). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the screen printing process of AAPA to utilize controlling the moisture content of the claimed range in order to limit the moisture absorption by the solder paste (see Yage col. 1, ll. 50-65). In addition, it would have been obvious to one of ordinary skill in the art

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at the time of the invention to choose the instantly claimed ranges through process optimization, since it has been held that there the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. See In re Boesch, 205 USPQ 215 (CCPA 1980).

## Response to Arguments

Applicant's affidavit (shown as Fig. 1), while informative, is improper because it has not been submitted in proper affidavit form. "The reason for requiring evidence in declaration or affidavit form is to obtain the assurances that any statements or representations made are correct, as provided by 35 U.S.C. 25 and 18 U.S.C. 1001." Ex parte Gray, 10 USPQ2d 1922, 1928 (Bd. Pat. App. & Inter. 1989).

In addition, applicant's affidavit is not commensurate in scope with the claims. It is noted that the features upon which applicant relies (i.e., where the moisture is equal to or less than 10 g/m3 suppresses the increase in viscosity of the solder paste which is caused by the reaction in the Zn in the tin-zinc system solder) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

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### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Johnson whose telephone number is 571-272-1177. The examiner can normally be reached on M-Th 7:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonathan Johnson Primary Examiner Art Unit 1725